

AMENDMENTS TO THE CLAIMS:

This listing of claims will replace all prior versions, and listings, of claims in the application:

Listing Of Claims:

Please amend the claims as follows:

1. (Currently Amended) A method of capturing and delivering caller identification information to a wireless telephone for calls placed to the wireless telephone during periods in which the wireless telephone is out of service, the method comprising:
 - receiving a call from a calling party directed to the wireless telephone;
 - obtaining caller identification information on the calling party from one of a caller name database if the calling party is calling from a wire line and the caller name database or a home location register if the calling party is calling from a wireless line;
 - determining whether the wireless telephone is registered to receive calls;
 - if the wireless telephone is not registered to receive calls, storing the caller identification information and checking the registration status of the wireless telephone at a regular frequency until the status indicates that the wireless telephone is registered to receive calls, the caller identification information being stored in one of a service control point and the home location register; and
 - if the wireless telephone becomes registered to receive calls and if it is determined, based on the wireless telephone model, that the wireless telephone is capable of receiving a missing call message directing a user to a missing call log,

forwarding the stored caller identification information to the wireless telephone for storage in the missed call log on the wireless telephone, wherein the missed call log is operative to store the caller identification information corresponding to calls received but not answered while the wireless telephone is registered to receive calls, and the caller identification information corresponding to calls received while the wireless telephone is not registered to receive calls.

2. (Canceled)

3. (Previously Presented) The method of Claim 1, further comprising:
displaying on the wireless telephone an indication of missed calls.

4. (Previously Presented) The method of Claim 1, further comprising:
displaying the caller identification information on the wireless telephone.

5. (Original) The method of Claim 4, wherein the caller identification information includes the name and telephone number of the calling party.

6. (Original) The method of Claim 5, wherein the caller identification information further includes the date and time of the call.

7. (Previously Presented) The method of Claim 1, wherein determining whether the wireless telephone is registered to receive calls includes transmitting an IS-41 location request from a wireless switch to a home location register.

8. (Previously Presented) The method of Claim 7, wherein determining whether the wireless telephone is registered to receive calls further comprises:

determining whether the wireless telephone is powered on; and

determining whether the wireless telephone is located in a wireless service area in which the wireless telephone may receive calls.

9. (Previously Presented) The method of Claim 1, wherein obtaining caller identification information on the calling party further comprises:

obtaining caller identification information on the calling party from a calling name database.

10. (Previously Presented) The method of Claim 1, wherein obtaining caller identification information on the calling party further comprises:

obtaining caller identification information on the calling party from a home location register.

11. (Previously Presented) The method of Claim 1, wherein storing the caller identification information further comprises:

sending the caller identification information via an IS-41 signal message to a caller identification queue; and

storing the caller identification information in the caller identification queue.

12. (Previously Presented) The method of Claim 1, wherein after storing the caller identification information, the method further comprising:

determining whether the wireless telephone is re-registered to receive calls.

13. (Previously Presented) The method of Claim 1, wherein determining whether the wireless telephone is registered to receive calls, further includes:

querying a home location register for information indicating that the wireless telephone is registered to receive calls.

14. (Currently Amended) A method of capturing and delivering caller identification information to a wireless telephone for calls placed to the wireless telephone during periods in which the wireless telephone is out of service, comprising:

receiving at a wireless switch a call from a calling party directed to the wireless telephone;

obtaining caller identification information on the calling party from one of a caller name database if the calling party is calling from a wire line and the caller name database or a home location register if the calling party is calling from a wireless line;

querying a home location register for information indicating that the wireless telephone is registered to receive calls;

if the wireless telephone is not registered to receive calls, sending the caller identification information to a caller identification queue for storage, the caller identification information being stored in one of a service control point and the home location register;

if the wireless telephone becomes registered to receive calls and if it is determined, based on the wireless telephone model, that the wireless telephone is capable of receiving a missing call message directing a user to a missing call log, forwarding the stored caller identification information to the wireless telephone for storage in the missed call log on the wireless telephone, wherein the missed call log is operative to store the caller identification information corresponding to calls received but not answered while the wireless telephone is registered to receive calls, and the caller identification information corresponding to calls received while the wireless telephone is not registered to receive calls.

15. (Previously Presented) The method of Claim 14, wherein querying a home location register for information indicating that the wireless telephone is registered to receive calls further comprises:

determining whether the wireless telephone is powered on; and

determining whether the wireless telephone is located in a wireless service area in which the wireless telephone may receive calls.

16. (Previously Presented) The method of Claim 14, wherein prior to forwarding the stored caller identification information to the wireless telephone, the method further comprising:

determining from the home location register whether the wireless telephone has become registered to receive calls.

17. (Currently Amended) A system of capturing and delivering caller identification information to a wireless telephone for calls placed to the wireless telephone during periods in which the wireless telephone is out of service, comprising:

a wireless switch operative to:

receive a call from a calling party directed to the wireless telephone; and a

home location register operative

obtain caller identification information on the calling party from one of a caller name database if the calling party is calling from a wire line and the caller name database or a home location register if the calling party is calling from a wireless line,

determine whether the wireless telephone is registered to receive calls,

send the caller identification information to a caller identification queue for storage, if the wireless telephone is not registered to receive calls, the caller identification information being stored in one of a service control point and the home location register, and

forward the stored caller identification information from the caller identification queue to the wireless telephone for storage in a missed call log on the wireless telephone if the wireless telephone becomes registered to receive calls and if it

is determined, based on the wireless telephone model, that the wireless telephone is capable of receiving a missing call message directing a user to the missing call log, wherein the missed call log is operative to store the caller identification information corresponding to calls received but not answered while the wireless telephone is registered to receive calls, and the caller identification information corresponding to calls received while the wireless telephone is not registered to receive calls.

18. (Original) The system of Claim 17, wherein the home location register is further operative to receive an IS-41 location request from a wireless switch for determining whether the wireless telephone is registered to receive calls.

19. (Canceled)

20. (Original) The system of Claim 17, wherein the caller identification information includes the name and telephone number of the calling party.

21. (Original) The method of Claim 20, wherein the caller identification information further includes the date and time of the call.